

Service Manual: LANE KEEPING SYSTEM

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The Lane Keeping System (LKS) has 2 functions, lane keeping aid and lane keeping alert. The Lane Keeping System (LKS) utilizes the camera located in the IPMA to detect and track the road lane markings. The lane keeping alert detects unintentional drifting toward the outside of the lane and alerts the driver through steering wheel vibrations and a visual alert in the IPC message center. The lane keeping aid assists the driver by automatically providing steering torque to help the driver keep the vehicle in the lane.

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System Operation

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Module Network Input Messages - IPMA

Broadcast Message	Originating Module	Message Purpose
Ambient air temperature	PCM	Used to control the camera windshield defrost heater operation. The IPMA may turn the heater on when the ambient temperature is below 41 °F (5 °C).
Hands off status	PSCM	Used to determine if a driver's hands are on the steering wheel when the lane keeping aid system is active. If a hands off condition is detected, the driver will be alerted via the message center.
Head up display flash rate	CCM	Disables the lane keeping system in the event of a collision warning.
Ignition key type	BCM	Prevents the lane keeping system from being disabled when a MyKey ® is in use.
Ignition status	BCM	Enables and disables the IPMA based on the ignition switch position.